AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

Claims 1-4 (canceled).

5. (new): A peripheral device for a programmable logic controller, comprising:

an instruction table for correlatively storing instructions and input/output types of parameters for the instructions;

a search/discrimination means for searching the instruction table for an instruction in a code in a portion of a sequence program selected as diversion data from an existing diversion-source sequence program, to discriminate an input/output type of a parameter for the instruction;

a search result creating/storing means for creating and storing search result table by combining an address in the code in the selected portion of the sequence program, with the input/output type;

a component data creating means for creating a variable data table by replacing the input/output types stored in the search result table with variable names, and for creating component data by adding the corresponding variable names to variables and to circuit information; and

a component data diversion means for diverting the component data into an arbitrary position in a designated sequence program.

6. (new): A peripheral device for a programmable logic controller according to claim 5, further

comprising:

a sequence-program-component storing means for storing into a component storage the

created component data as a sequence program component;

a sequence-program-component displaying device for displaying the sequence program

components stored in the component storage;

a sequence-program-component selecting means for selecting a desired sequence

program component from the sequence program components displayed by the sequence-

program-component displaying device; and

a sequence-program-component diversion means for diverting the selected sequence

program component into a new sequence program.

7. (new): A program creating method of copying a portion of an existing sequence program and

pasting the portion into a new sequence program, for a peripheral device for a programmable

logic controller, the method comprising:

a search/discrimination step of searching an instruction table for correlatively storing

instructions and input/output types of parameters for the instructions for an instruction in a code

in a portion of the sequence program selected as diversion data from an existing diversion-source

sequence program, to discriminate an input/output type of a parameter for the instruction in the

code;

a search result creating/storing step of creating and storing search result table by

combining the discriminated input/output type, with an address in the code in the selected

portion of the sequence program;

a component data creating step of creating a variable data table by replacing the input/output types stored in the search result table with variable names, and of creating component data by adding the corresponding variable names to variables and to circuit information; and

a component data diversion step of diverting the component data into an arbitrary position in a new sequence program as a diversion destination.

8. (new): A program creating method according to claim 7, for a peripheral device for a programmable logic controller, the method further comprising:

a sequence-program-component storing step of storing into a component storage the created component data as a sequence program component;

a sequence-program-component displaying step of displaying the sequence program components stored in the component storage;

a sequence-program-component selecting step of selecting a desired sequence program component from the sequence program components displayed in the sequence-program-component displaying step; and

a sequence-program-component diversion step of diverting into a new sequence program the desired sequence program component that has been selected.

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